Kirill Ryzhikov

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PERSONAL INFO

AI-enthusiast, experienced at classical machine learning tasks and more sophisticated modern deep learning approaches, also passionate about quantitative finances and DeFi based products. Looking for opportunities in fields of machine/deep learning, computer vision and signal processing tasks, also interested in quantitative researcher positions for algo-trading, automated market making and liquidity providing.
Looking for relocate possibilities, visa sponsorship needed.

EXPERIENCE

Myna Labs
San-Francisco, USA (remote)

- **Engineer and researcher**, *computer vision and signal processing*
November 2021 - (Present)

  `Deep Learning` `PyTorch` `Triton` `CUDA` `Machine Learning` `Time-Series`

  - Working on research of real-time audio driven video generation for different platforms.
  - Deploying deep learning powered service as server-side and server-less solutions.
  - Managed to increase server-side solution by **50%** and implemented parallel requests processing.

Ex-Human, Inc.
SF, USA (remote)

- **Computer Vision Engineer**, *Developing end2end real-time chat bots visualization system*
March 2020 - Nov. 2021

  `Deep Learning` `PyTorch` `Triton` `CUDA`

  - Took part in developing next generation Ai-ChatBots platform.
  - Created MVP visual chat bots, that later became production solution.
  - Managed to increase time spent in app by nearly **30%** in comparison with other popular chat-bot apps.

Tinkoff Bank
Moscow, Russia

- **Machine Learning Researcher**, *Several deep learning tasks, computer vision, NLP, signal processing etc.*
March 2020 - Nov. 2021

  `Deep Learning` `PyTorch` `Triton` `CUDA` `Machine Learning` `SQL`

  - Worked in research department, building cutting-edge banking and not-banking products.
  - Deploying deep learning models in production, performing internal research, writing publications (see publications part).
  - Managed to reduce face-parsing data-base size by almost **10** times with filtering and postprocessing. Developed AI-chat bot with talking head and presented it at biggest EMEA conference SPIEF.

EDUCATION

Moscow State University
Moscow, Russia

Bachelor Degree in Computer Science
Sept. 2019 - Aug. 2023

- **Department**: Department of Mathematical Statistics, Mathematical Finances Laboratory
- **Thesis**: Developing news-aware event driven trading algorithm
- **GPA**: 4.5/5

Center Of Mathematical Finances
Online

Quantitative finances
Sept. 2021 - Aug. 2022

- **First Year**: Developing option pricing algorithm, developing HFT-strategy
- **Graduate Program Project**: Uniswap v3 AMM strategies research

PUBLICATIONS

63-th All-Russian scientific conference at MIPT
Moscow, Russia

`Best research paper and project in AI section`
23 Nov. - 29 Nov. 2020

Presented new State Of The Art approach for facial mimics reenactment from audio and video sources, using Transposed Convolutions and specific audio-signal and mimics representation, resulting end2end real-time talking heads generation service.

PROGRAMMING SKILLS

- **Languages**: Python, C++, CUDA.
- **Technologies**: Git, Docker, Linux.
- **Knowledge**: Algorithms, Data Structures, Machine Learning, Deep Learning, CI/CD, Backtesting.

OTHER ACTIVITIES

Tinkoff ML/DL Educational Programs
Moscow, Russia

`Lecturer, ML/DL course owner, Seminars teacher`
23 Nov. 2020 - (Present)

Created program for 2 course for students in fields of machine learning and deep learning. Lead team of 4 teacher and 1 managers. 30% of students later joined tinkoff team as interns.